

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 658 AND I-68 OFF RAMP/MD 49 IN ALLEGANY COUNTY. MD 658 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA FIVE-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH AN EXCLUSIVE-PERMISSIVE LEFT TURN PHASE FOR S.B. MD 658.

CONTROLLER REQUIREMENTS

THE EXISTING FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH SYSTEM PACKAGE AND AND FOUR (4), FOUR-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIERS HOUSED IN A NEMA "6" BASE MOUNTED CABINET IS BEING USED.

PHASING CHART

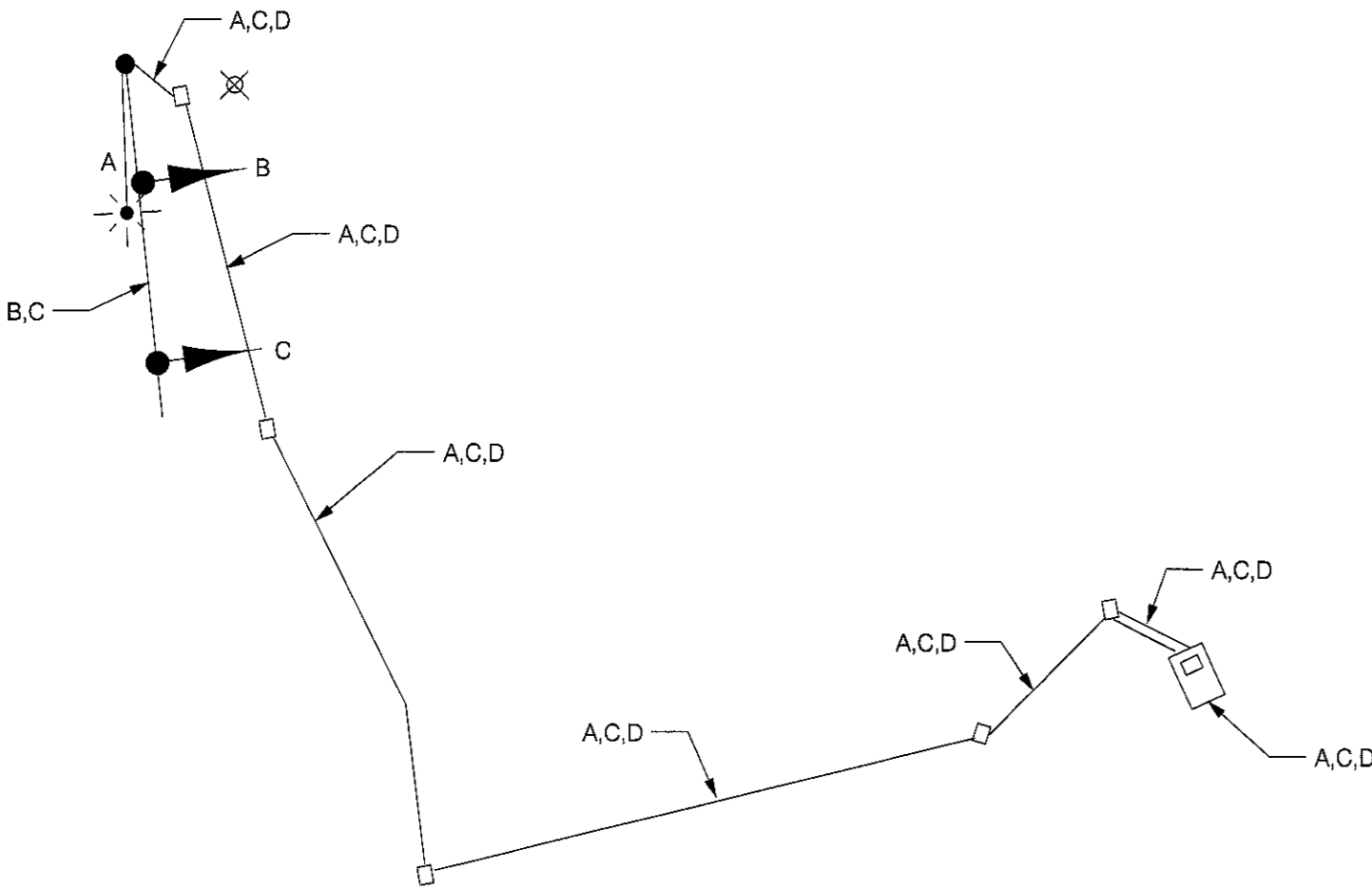
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PHASE 2 & 5	R	R	G	G	G	R	R	R	R
5 CHANGE	R	R	G	G	G	R	R	R	R
PHASE 2 & 6	G	G	G	G	G	R	R	R	R
2 & 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R
PHASE 4 & 8	R	R	R	R	R	G	G	G	G
4 & 8 CHANGE	R	R	R	R	R	Y	Y	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

QUANTITY	DESCRIPTION
1 EA	MAINTENANCE OF TRAFFIC
1 CY	TEST PIT EXCAVATION
8 EA	FURNISH AND INSTALL 12 IN. VEHICULAR SIGNAL HEAD SECTION
1 EA	FURNISH AND INSTALL 15 FT. STREET LIGHTING ARM FOR SIGNAL POLE
1 EA	FURNISH AND INSTALL 250 WATT HPSV LUMINAIRE
1 EA	FURNISH AND INSTALL 38 FT. MAST ARM AND POLE
LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
10 LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
3 CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
190 LF	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER WIRE
1 EA	FURNISH AND INSTALL GROUND ROD 3/4 IN. DIAMETER X 10 FT. LENGTH
20 LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR NO. 14 AWG
290 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR NO. 14 AWG
260 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR NO. 12 AWG
11 SF	RELOCATE OVERHEAD SIGN

WIRING DIAGRAM



WIRING KEY

- A 2 CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)
- B 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- C 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- D STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- Ⓢ GROUND ROD

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY MSHA AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

CONTACT PERSONS FOR DISTRICT 6 ARE AS FOLLOWS:

MR. GEORGE SMALL
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(301) 729-8444

MR. GEORGE FRANKENBURY
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(301) 729-8457

MR. LARRY HUMBERTSON
ASSISTANT DISTRICT ENGINEER - UTILITIES
(301) 729-8439

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.
CHIEF, TRAFFIC OPERATIONS
(410) 787-7630

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
(410) 787-7676

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787-7631

MS. DARLENE EIDE
SUPPLY OFFICE
SIGNAL SHOP WAREHOUSE
(410) 787-7668

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
(410) 787-7652

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

TRAFFIC CONCEPTS, INC.
325 Gambrills Road
Suite E
Gambrills, MD 21054
(410) 923-7101

FAX (410) 923-6473 EMAIL TRACONCEPT@AOL.COM



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION
MD 658 (VOCKE ROAD) AND I-68 OFF RAMP/MD 49 (BRADDOCK ROAD)

DRAWN BY: M.HOWELL	F.A.P. NO.	TS NO. 318H-G1	SHEET NO. 2 OF 2
CHECKED BY: T.ZAYDEL	S.H.A. NO.	T.I.M.S. NO. G547	
SCALE: 1" = 20'	COUNTY: ALLEGANY	LOG MILE: 01065800.63	
DATE: 7/2004			